

Claims

What is claimed is:

1. A parametric equalizer, comprising:
an audio filter having a plurality of electronic components;
a first control mechanism having a variable resistive element coupled to a first node within the plurality of electronic components for controlling a center frequency of the audio filter; and
a second control mechanism having first and second commonly controlled variable resistive elements respectively coupled to second and third nodes within the plurality of electronic components, wherein the first and second resistive elements jointly control signal level and bandwidth of the audio filter.
2. The parametric equalizer of claim 1, wherein the first control mechanism includes a potentiometer having a terminal coupled to the first node within the plurality of electronic components.
3. The parametric equalizer of claim 1, wherein the second control mechanism includes a potentiometer housing the first and second commonly controlled variable resistive elements, the first resistive element having a terminal coupled to the second node within the plurality of electronic components and the second resistive element have a terminal coupled to the third node within the plurality of electronic components.
4. The parametric equalizer of claim 1, wherein the first and second control mechanisms are mounted to a

control panel for user access.

5. The parametric equalizer of claim 1, wherein the plurality of electronic components includes a gain amplifier, the first resistive element of the second control mechanism being coupled to an input of the gain amplifier for adjusting the signal level of the audio filter.

6. The parametric equalizer of claim 1, wherein the plurality of electronic components includes a summing node, the second resistive element of the second control mechanism being coupled to the summing node for adjusting the bandwidth of the gain amplifier.

7. An audio system, comprising:
a parametric equalizer having attributes determined by a plurality of control parameters; and
a first control interface coupled for jointly controlling first and second control parameters of the parametric equalizer.

8. The audio system of claim 7, wherein the parametric equalizer includes an audio filter having plurality of electronic components.

9. The audio system of claim 8, further including a second control interface coupled for controlling a third control parameter of the parametric equalizer.

10. The audio system of claim 9, wherein the second control interface includes a variable resistive element coupled to a first node within the plurality of electronic components.

11. The audio system of claim 9, wherein the third control parameter is a center frequency of the audio filter.

12. The audio system of claim 9, further including a control panel for mounting the first and second control interfaces.

13. The audio system of claim 8, wherein the first control interface includes first and second commonly controlled variable resistive elements respectively coupled to first and second nodes within the plurality of electronic components.

14. The audio system of claim 8, wherein the first control parameter is signal level of the audio filter and the second control parameter is bandwidth of the audio filter.

15. The audio system of claim 8, wherein the second control interface includes a potentiometer housing the first and second commonly controlled variable resistive elements, the first resistive element having a terminal coupled to a first node within the plurality of electronic components and the second resistive element have a terminal coupled to a second node within the plurality of electronic components.

16. The audio system of claim 7, further including a guitar for generating audio signals which are routed to the parametric equalizer.

17. The audio system of claim 16, further including a

pre-amplifier coupled for receiving the audio signals from the guitar.

18. The audio system of claim 17, further including a power amplifier having an input coupled to an output of the pre-amplifier.

19. The audio system of claim 18, further including a speaker system having an input coupled to an output of the power amplifier.

20. The audio system of claim 7, further including a bass guitar for generating audio signals which are routed to the parametric equalizer.

21. The audio system of claim 20, further including a pre-amplifier coupled for receiving the audio signals from the bass guitar.

22. A signal processing circuit, comprising:

a filter;

a first variable resistor coupled to a first node within the filter for controlling a first parametric function of the filter; and

a second variable resistor coupled to a second node within the filter for controlling a second parametric function of the filter, wherein the first and second variable resistors are jointly controlled.

23. The signal processing circuit of claim 22, further including a potentiometer housing the first and second variable resistors on a common shaft.

24. The signal processing circuit of claim 22, wherein

the first parametric function is signal level and the second parametric function is bandwidth.

25. A method of controlling a parametric equalizer, comprising:

 providing a control interface having first and second variable elements which are jointly controlled; and

 controlling first and second control parameters of the parametric equalizer with the first and second variable elements.

26. The method of claim 25, wherein the first and second variable elements are first and second variable resistors.

27. The method of claim 25, wherein the first and second resistors are housed with a potentiometer and controlled by a common shaft.

28. The method of claim 25, wherein the first control parameter is signal level of the parametric equalizer and the second control parameter is bandwidth of the parametric equalizer.